
A close-up photograph of a human hand shaking a white, sleek, futuristic robotic hand. The background is a dark, gradient blue. The text is overlaid on the image.

Building Your Own Jarvis: A Multi-Agent Approach

Team - JARVIS

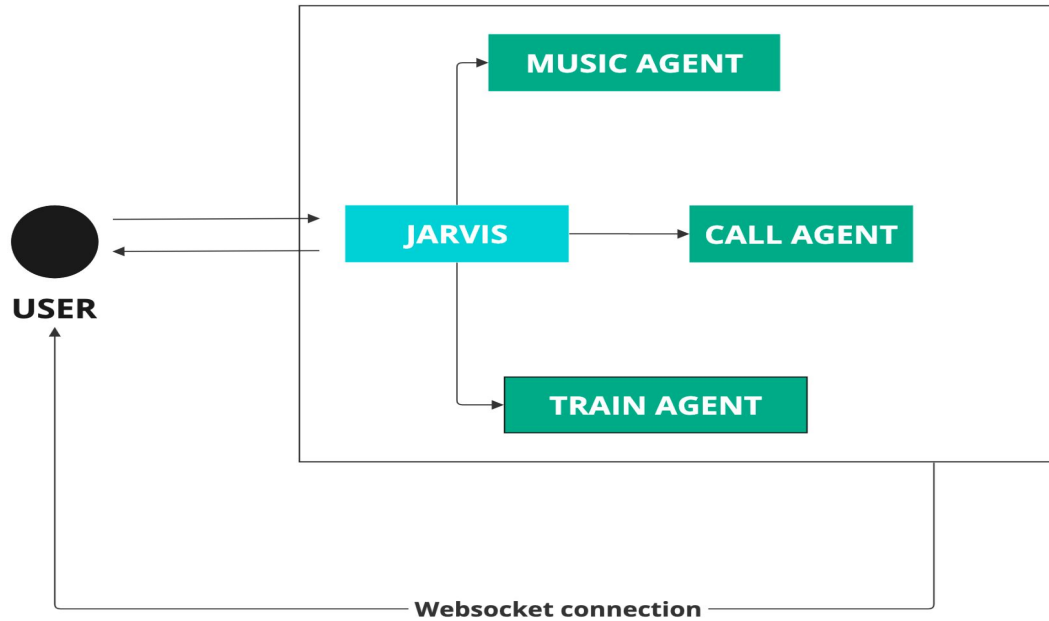
INTRODUCTION

- Creating an AI agent like Jarvis that can become a buddy of someone and can perform multiple tasks on demand.
- Tech used - **Langchain, OpenAI, Prompt Engineering.**
- React and Django to create a prototype.

PROBLEM STATEMENT

- Perform tasks without the need of human interaction.
- Use Single agent instead of multiple agents.
- Enhance user experience and convenience.
- Quick Information Retrieval..
- All time support.

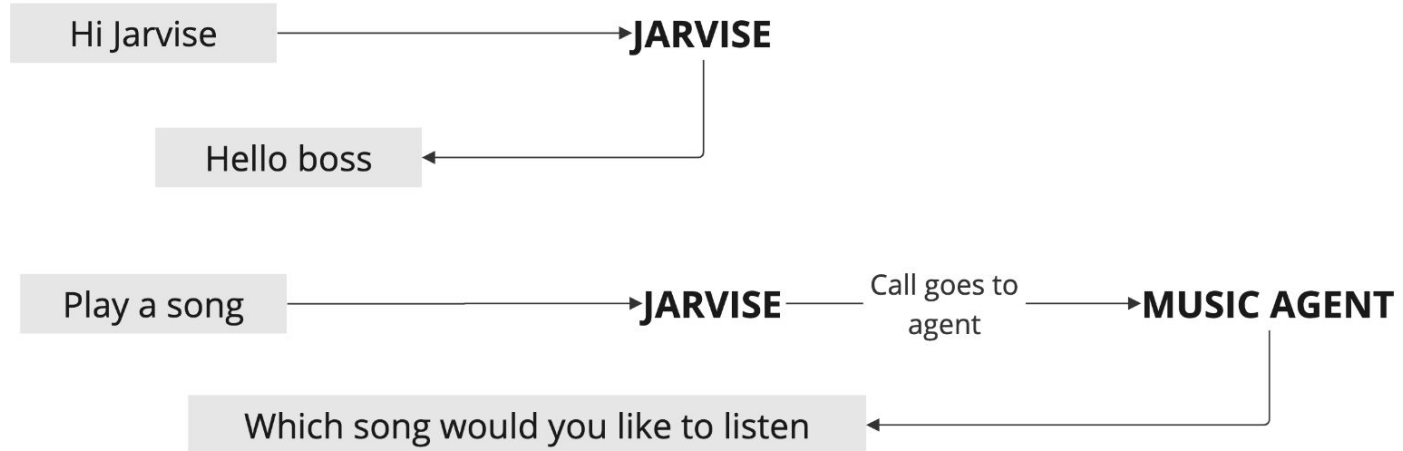
APPROACH



APPROACH

- There is one main agent JARVIS and Other agents are used to perform actions.
- User message first goes to JARVIS where Jarvis decides which agents need to be called to perform the action.
- When Jarvis calls any agents then that agent becomes active and takes responsibility of handling the given task.

EXAMPLE



SCREENSHOT

Dataset Used

Contact List

Song List

Tum Hi Ho

Singer: Arijit Singh | Mood: Romantic | Id: 1

Shayad

Singer: Arijit Singh | Mood: Romantic | Id: 2

Raabta

Singer: Arijit Singh | Mood: Romantic | Id: 3

Tera Ban Jaunga

Singer: Akhil Sachdeva & Tulsi Kumar | Mood: Love | Id: 4

Tu Hi Yaar Mera

Singer: Neha Kakkar & Arijit Singh | Mood: Feel-Good | Id: 5

Tu Hi Hai

Singer: Arijit Singh | Mood: Romantic | Id: 6

Hawayein

Singer: Arijit Singh | Mood: Romantic | Id: 7

Tu Jo Mila

Singer: Arijit Singh | Mood: Hopeful | Id: 8

Tum Mile

Singer: Arijit Singh | Mood: Romantic | Id: 9

Main Tera Boyfriend

Singer: Arijit Singh & Neha Kakkar | Mood: Upbeat | Id: 10

Jarvis

Hello boss! How are you today?

song a song

Sure boss! Which song would you like me to play?

any song

Okay boss. Playing song

call to mom

Calling to Mom

Calling to
Mom (123-456-7890)



Tum Hi Ho

Arijit Singh, Romantic

Playing

FUTURE SCOPE

- Integration with IoT devices for home automation is possible.
- It can be used to provide different kinds of services like ticket booking, remembering things, handling emails, etc.
- When provided vision it can exactly behave like a real Jarvis.
- Voice support.

CONCLUSION

- This minor achievements shows its possible to build a real JARVIS with some more effort.
- New AI tools like ChatGPT and OpenAI has bought as us in that stage from where lots developments will take place in AI industry.
- Creating agents using AI tool is easy but need good skill to develop an algorithm.

THANK YOU!